

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P249008

Luminaire Tested: **LD8B175D010 ER8B175840 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175840 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18037.0 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

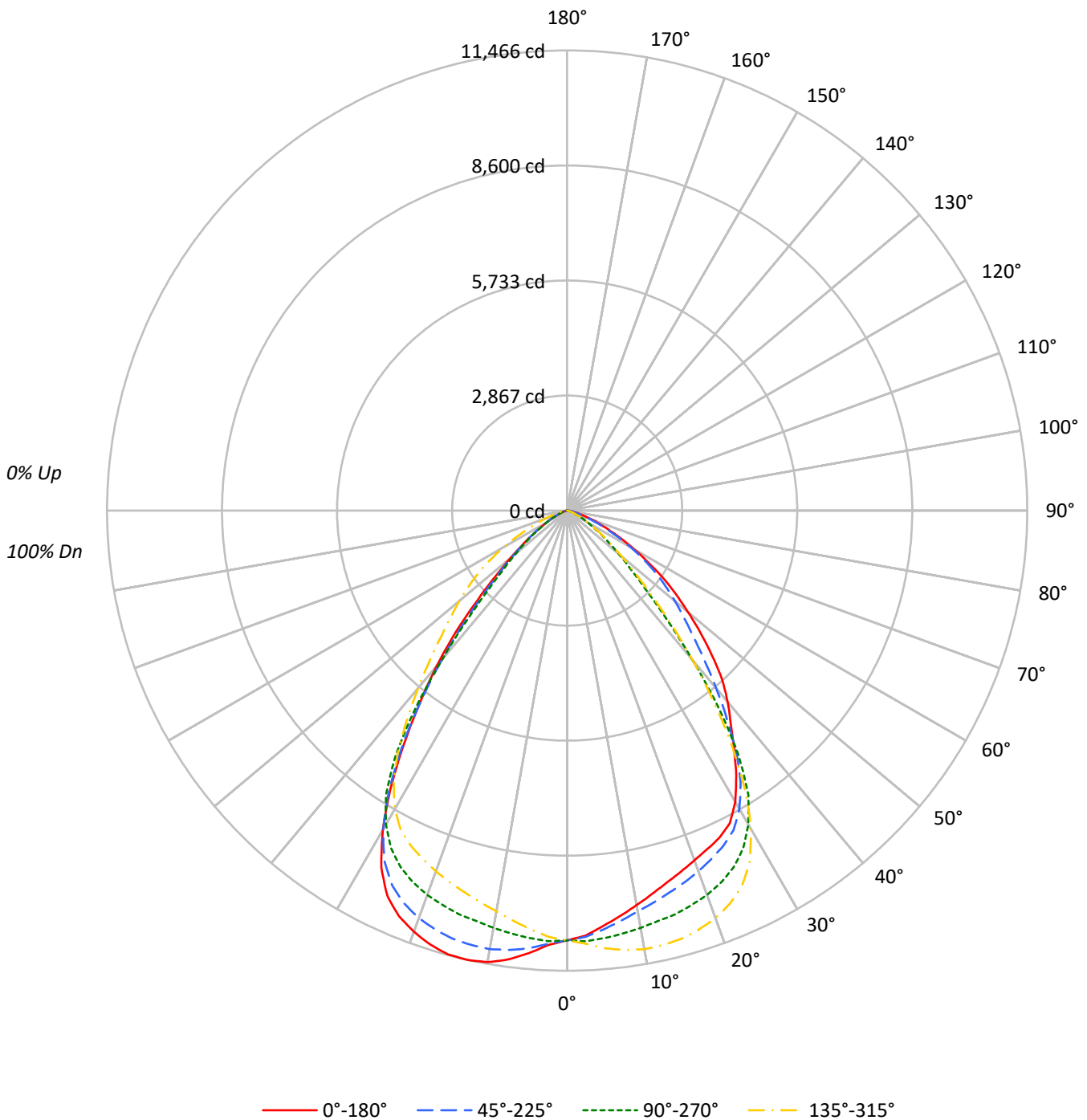
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	330195	330195	330195	330195
5°	321424	330971	342789	330971
10°	312531	330539	357715	330539
15°	306289	332499	365547	332499
20°	304205	334401	366485	334401
25°	305802	333729	360594	333729
30°	298242	321514	327290	321514
35°	272800	280472	266107	280472
40°	250456	195099	203737	195099
45°	222542	119022	137718	119022
50°	188365	79505	88294	79505
55°	156010	54251	57342	54251
60°	118991	36115	36436	36115
65°	84311	22502	20605	22502
70°	60812	15075	13677	15075
75°	38614	7482	6231	7482
80°	26939	5576	4617	5576
85°	24059	0	1840	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1019.2	5.7
10°-20°	2951.4	16.4
20°-30°	4469.1	24.8
30°-40°	4479.1	24.8
40°-50°	2812.6	15.6
50°-60°	1498.9	8.3
60°-70°	616.4	3.4
70°-80°	162.8	0.9
80°-90°	27.5	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	8439.7	46.8
0°-40°	12918.8	71.6
0°-60°	17230.3	95.5
0°-90°	18037.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18037.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	10708	10708	10708	10708	10708	
5°	10384	10692	11074	10692	10384	979
15°	9594	10415	11450	10415	9594	2714
25°	8988	9809	10598	9809	8988	4122
35°	7247	7451	7069	7451	7247	4540
45°	5103	2729	3158	2729	5103	3925
55°	2902	1009	1067	1009	2902	2587
65°	1156	308	282	308	1156	1199
75°	324	63	52	63	324	367
85°	68	0	5	0	68	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0
2.5°	10598.2	10587.7	10582.5	10593.1	10598.2	10619.1	10613.9	10624.3	10624.3	10629.7	10640.0
5°	10383.9	10378.5	10383.9	10383.9	10404.8	10425.6	10420.5	10436.2	10446.5	10472.8	10483.1
7.5°	10185.3	10185.3	10179.9	10200.7	10211.3	10242.7	10237.3	10263.6	10279.3	10305.3	10341.9
10°	9981.2	9981.2	9986.4	10002.1	10007.5	10054.4	10054.4	10091.0	10111.9	10138.1	10185.3
12.5°	9782.6	9782.6	9814.0	9803.5	9824.3	9860.9	9876.6	9913.2	9944.6	9996.9	10044.1
15°	9594.3	9594.3	9604.8	9630.9	9646.6	9693.7	9719.8	9761.7	9798.3	9850.6	9918.6
17.5°	9432.2	9427.1	9432.2	9463.7	9495.1	9536.8	9557.7	9610.0	9646.6	9714.6	9777.4
20°	9270.2	9280.7	9280.7	9306.8	9327.6	9379.9	9400.8	9458.5	9500.2	9562.9	9636.2
22.5°	9129.0	9123.8	9123.8	9160.4	9176.1	9223.0	9243.9	9296.2	9343.3	9395.6	9463.7
25°	8987.8	8977.3	8998.4	9003.5	9013.9	9066.2	9081.9	9118.5	9165.6	9212.7	9280.7
27.5°	8778.6	8768.3	8773.5	8794.3	8810.1	8851.8	8862.4	8898.9	8935.5	8977.3	9035.0
30°	8376.0	8365.6	8360.5	8397.1	8412.8	8444.0	8459.7	8522.5	8532.9	8580.0	8621.7
32.5°	7842.7	7837.5	7848.1	7879.3	7895.0	7936.9	7957.8	7994.4	8020.5	8046.7	8088.5
35°	7246.8	7236.2	7246.8	7278.2	7278.2	7314.8	7330.5	7346.0	7340.8	7346.0	7335.7
37.5°	6692.6	6687.2	6692.6	6708.1	6692.6	6708.1	6692.6	6661.2	6603.7	6540.9	6478.0
40°	6221.9	6227.1	6195.9	6216.8	6159.1	6148.8	6091.3	6012.8	5897.8	5772.4	5594.6
42.5°	5720.1	5704.4	5683.5	5693.8	5646.9	5610.1	5516.1	5416.8	5270.3	5061.3	4846.7
45°	5103.1	5097.9	5087.4	5082.2	5050.8	5014.2	4935.6	4820.7	4658.7	4444.3	4188.0
47.5°	4501.8	4486.1	4486.1	4491.2	4454.6	4449.5	4386.6	4287.4	4146.2	3937.1	3670.4
50°	3926.5	3921.3	3931.9	3952.8	3926.5	3916.2	3874.4	3806.4	3681.0	3503.2	3252.0
52.5°	3408.9	3403.8	3414.3	3440.3	3429.8	3440.3	3398.6	3346.3	3262.6	3090.0	2870.5
55°	2901.9	2901.9	2901.9	2933.1	2933.1	2933.1	2912.2	2881.0	2802.5	2677.0	2473.2
57.5°	2373.8	2378.9	2410.4	2415.5	2410.4	2420.9	2415.5	2384.1	2332.0	2243.1	2086.2
60°	1929.4	1929.4	1945.1	1960.8	1955.4	1960.8	1960.8	1945.1	1892.8	1819.6	1694.1
62.5°	1526.7	1542.4	1531.9	1542.4	1563.3	1542.4	1531.9	1521.5	1484.9	1437.8	1333.2
65°	1155.5	1166.0	1166.0	1171.2	1160.6	1166.0	1145.1	1129.4	1108.5	1056.3	988.2
67.5°	878.5	878.5	878.5	878.5	873.1	867.9	862.8	847.1	810.5	789.6	716.2
70°	674.5	643.0	643.0	643.0	643.0	648.4	632.7	611.8	601.3	564.7	512.4
72.5°	449.6	460.1	449.6	449.6	439.2	444.4	423.5	413.0	402.7	381.8	350.4
75°	324.1	298.1	308.4	313.8	298.1	308.4	287.5	266.6	266.6	250.9	235.2
77.5°	209.2	204.0	209.2	214.3	209.2	204.0	193.5	182.9	182.9	177.8	162.1
80°	151.7	146.3	146.3	146.3	141.2	146.3	136.0	136.0	125.5	120.3	109.8
82.5°	99.4	99.4	94.0	99.4	94.0	99.4	83.7	83.7	83.7	78.3	68.0
85°	68.0	57.5	57.5	62.8	52.3	62.8	57.5	52.3	47.1	47.1	41.8
87.5°	31.4	36.6	31.4	36.6	31.4	31.4	36.6	31.4	31.4	20.9	20.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0
2.5°	10655.7	10660.9	10660.9	10682.0	10692.3	10697.5	10697.5	10739.4	10723.7	10734.3	10744.6
5°	10504.2	10535.4	10545.9	10545.9	10603.4	10624.3	10645.2	10692.3	10697.5	10728.9	10765.5
7.5°	10357.6	10394.2	10415.3	10462.2	10498.8	10535.4	10598.2	10629.7	10660.9	10702.8	10749.7
10°	10216.5	10258.4	10300.2	10336.8	10394.2	10441.4	10483.1	10556.3	10593.1	10650.5	10713.2
12.5°	10080.7	10138.1	10174.7	10237.3	10300.2	10341.9	10404.8	10472.8	10530.2	10587.7	10660.9
15°	9960.4	10028.4	10070.1	10138.1	10206.1	10263.6	10331.6	10415.3	10457.1	10525.1	10593.1
17.5°	9829.5	9902.9	9955.2	10017.8	10101.5	10164.2	10221.8	10305.3	10357.6	10430.8	10509.4
20°	9693.7	9766.9	9829.5	9892.3	9976.1	10038.7	10106.7	10190.4	10247.9	10321.0	10383.9
22.5°	9531.7	9599.7	9667.5	9740.6	9824.3	9876.6	9955.2	10028.4	10091.0	10159.0	10221.8
25°	9322.5	9406.2	9458.5	9526.3	9594.3	9651.7	9735.5	9808.6	9860.9	9923.8	9981.2
27.5°	9076.7	9139.5	9181.3	9238.8	9306.8	9359.1	9421.7	9495.1	9547.4	9604.8	9646.6
30°	8658.3	8716.0	8752.6	8794.3	8862.4	8909.5	8961.8	9029.6	9066.2	9108.1	9144.7
32.5°	8109.3	8156.5	8177.3	8208.8	8255.9	8302.8	8344.8	8402.2	8417.9	8444.0	8444.0
35°	7314.8	7325.1	7319.9	7330.5	7351.4	7377.4	7414.0	7450.6	7471.5	7471.5	7456.0
37.5°	6384.0	6321.4	6253.4	6201.1	6185.4	6174.8	6195.9	6211.4	6232.5	6242.8	6216.8
40°	5416.8	5275.7	5123.9	4987.9	4893.9	4852.1	4836.4	4846.7	4846.7	4883.3	4883.3
42.5°	4585.5	4365.8	4141.1	3937.1	3801.0	3696.7	3649.5	3649.5	3654.7	3681.0	3696.7
45°	3895.3	3618.1	3356.6	3132.0	2943.6	2807.6	2745.0	2729.3	2724.1	2734.5	2771.0
47.5°	3367.2	3079.7	2807.6	2530.7	2332.0	2196.0	2138.5	2117.5	2096.6	2117.5	2122.8
50°	2954.2	2656.1	2368.6	2091.4	1882.2	1761.9	1688.8	1657.3	1652.2	1652.2	1662.7
52.5°	2577.6	2300.6	2013.1	1730.7	1511.0	1396.1	1328.1	1312.4	1291.5	1312.4	1312.4
55°	2222.0	1945.1	1662.7	1396.1	1212.9	1092.8	1030.0	1009.1	998.6	1014.3	1014.3
57.5°	1835.3	1599.9	1338.6	1098.0	915.1	831.4	784.2	758.2	752.8	763.4	752.8
60°	1505.8	1307.2	1082.3	862.8	721.6	632.7	596.1	585.6	575.0	585.6	585.6
62.5°	1192.0	1024.8	841.7	674.5	554.2	491.5	449.6	449.6	444.4	444.4	449.6
65°	883.7	752.8	622.2	481.0	386.9	339.8	308.4	308.4	303.2	308.4	303.2
67.5°	643.0	554.2	449.6	350.4	277.2	250.9	230.1	214.3	224.9	214.3	209.2
70°	470.7	397.3	324.1	266.6	214.3	188.3	172.6	167.2	156.9	156.9	156.9
72.5°	313.8	266.6	219.5	172.6	141.2	114.9	109.8	99.4	88.9	94.0	104.6
75°	209.2	177.8	156.9	125.5	94.0	94.0	62.8	62.8	52.3	62.8	47.1
77.5°	146.3	120.3	94.0	78.3	62.8	57.5	41.8	41.8	36.6	36.6	36.6
80°	104.6	88.9	68.0	57.5	41.8	41.8	36.6	31.4	26.0	26.0	31.4
82.5°	62.8	47.1	47.1	41.8	26.0	20.9	15.7	20.9	10.5	10.5	10.5
85°	36.6	31.4	26.0	15.7	10.5	10.5	5.2	0.0	5.2	5.2	0.0
87.5°	20.9	10.5	10.5	5.2	0.0	5.2	5.2	0.0	0.0	0.0	10.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0
2.5°	10770.8	10765.5	10776.0	10776.0	10807.4	10802.0	10817.8	10817.8	10807.4	10812.6	10833.5
5°	10807.4	10823.1	10854.3	10880.6	10927.5	10948.6	10974.6	11000.9	11006.1	11021.8	11037.5
7.5°	10807.4	10859.7	10896.3	10943.2	11006.1	11042.6	11100.1	11147.2	11168.1	11194.2	11225.6
10°	10786.3	10838.6	10906.6	10958.9	11037.5	11094.9	11152.4	11225.6	11257.0	11298.7	11340.7
12.5°	10744.6	10802.0	10875.2	10943.2	11032.1	11084.4	11157.6	11225.6	11272.7	11330.2	11377.3
15°	10682.0	10749.7	10817.8	10885.8	10979.8	11042.6	11110.7	11189.0	11236.1	11298.7	11340.7
17.5°	10582.5	10655.7	10718.5	10781.2	10870.0	10943.2	11006.1	11079.2	11126.4	11178.7	11236.1
20°	10462.2	10530.2	10598.2	10650.5	10739.4	10802.0	10870.0	10938.1	10974.6	10985.2	11074.1
22.5°	10310.7	10357.6	10409.9	10493.6	10545.9	10603.4	10666.2	10728.9	10765.5	10823.1	10854.3
25°	10059.6	10106.7	10164.2	10200.7	10263.6	10310.7	10373.3	10441.4	10462.2	10504.2	10535.4
27.5°	9709.4	9735.5	9761.7	9792.9	9829.5	9855.8	9892.3	9923.8	9944.6	9965.5	9986.4
30°	9155.0	9155.0	9155.0	9134.2	9149.9	9165.6	9170.7	9165.6	9165.6	9160.4	9160.4
32.5°	8423.1	8381.4	8334.2	8292.5	8276.8	8255.9	8245.3	8229.6	8203.6	8187.9	8193.1
35°	7434.9	7340.8	7283.4	7231.1	7189.3	7157.9	7142.2	7126.5	7121.3	7100.4	7079.3
37.5°	6201.1	6133.1	6091.3	6059.9	6023.3	5991.9	5997.0	6002.4	6017.9	6007.6	6012.8
40°	4893.9	4878.2	4893.9	4857.3	4846.7	4857.3	4883.3	4920.1	4941.0	4961.9	4998.5
42.5°	3722.7	3748.7	3785.5	3785.5	3801.0	3822.1	3853.3	3911.0	3942.2	3978.8	4020.8
45°	2802.5	2833.9	2881.0	2896.5	2907.1	2933.1	2969.9	3016.8	3037.7	3069.1	3105.7
47.5°	2159.4	2180.3	2206.3	2232.6	2258.6	2269.2	2305.8	2305.8	2332.0	2352.9	2363.2
50°	1683.6	1704.5	1725.3	1741.1	1751.6	1767.3	1777.6	1793.3	1798.5	1809.1	1814.2
52.5°	1317.5	1343.8	1343.8	1354.1	1369.8	1385.5	1380.4	1385.5	1390.7	1390.7	1406.4
55°	1030.0	1030.0	1045.7	1045.7	1056.3	1050.9	1056.3	1056.3	1056.3	1056.3	1061.4
57.5°	768.5	773.9	789.6	779.1	773.9	784.2	773.9	784.2	779.1	789.6	773.9
60°	590.8	590.8	596.1	596.1	601.3	601.3	601.3	596.1	596.1	590.8	590.8
62.5°	444.4	449.6	455.0	449.6	449.6	449.6	444.4	444.4	439.2	433.9	433.9
65°	298.1	292.9	303.2	292.9	298.1	298.1	292.9	298.1	282.4	287.5	282.4
67.5°	214.3	209.2	204.0	209.2	204.0	198.6	198.6	204.0	209.2	193.5	193.5
70°	141.2	146.3	141.2	146.3	151.7	151.7	146.3	141.2	146.3	136.0	141.2
72.5°	88.9	88.9	88.9	88.9	88.9	94.0	94.0	94.0	83.7	83.7	78.3
75°	41.8	57.5	47.1	41.8	57.5	57.5	52.3	52.3	47.1	47.1	47.1
77.5°	41.8	31.4	31.4	31.4	31.4	31.4	31.4	31.4	26.0	31.4	26.0
80°	20.9	20.9	20.9	15.7	20.9	20.9	26.0	20.9	20.9	15.7	26.0
82.5°	10.5	10.5	10.5	0.0	5.2	10.5	10.5	5.2	10.5	10.5	5.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P249008

CATALOG NUMBER: LD8B175D010 ER8B175840 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0
2.5°	10828.3	10823.1	10828.3	10833.5	10828.3	10823.1	10828.3	10833.5	10812.6	10807.4	10817.8
5°	11058.4	11058.4	11068.7	11074.1	11068.7	11058.4	11058.4	11037.5	11021.8	11006.1	11000.9
7.5°	11257.0	11267.5	11277.9	11283.0	11277.9	11267.5	11257.0	11225.6	11194.2	11168.1	11147.2
10°	11377.3	11393.0	11413.9	11424.2	11413.9	11393.0	11377.3	11340.7	11298.7	11257.0	11225.6
12.5°	11429.6	11445.3	11471.3	11466.2	11471.3	11445.3	11429.6	11377.3	11330.2	11272.7	11225.6
15°	11393.0	11413.9	11439.9	11450.5	11439.9	11413.9	11393.0	11340.7	11298.7	11236.1	11189.0
17.5°	11277.9	11309.3	11325.0	11340.7	11325.0	11309.3	11277.9	11236.1	11178.7	11126.4	11079.2
20°	11121.0	11142.1	11162.9	11168.1	11162.9	11142.1	11121.0	11074.1	10985.2	10974.6	10938.1
22.5°	10896.3	10912.0	10958.9	10943.2	10958.9	10912.0	10896.3	10854.3	10823.1	10765.5	10728.9
25°	10572.0	10587.7	10593.1	10598.2	10593.1	10587.7	10572.0	10535.4	10504.2	10462.2	10441.4
27.5°	10012.7	10012.7	10023.0	10028.4	10023.0	10012.7	10012.7	9986.4	9965.5	9944.6	9923.8
30°	9165.6	9165.6	9165.6	9191.8	9165.6	9165.6	9165.6	9160.4	9160.4	9165.6	9165.6
32.5°	8187.9	8177.3	8167.0	8177.3	8167.0	8177.3	8187.9	8193.1	8187.9	8203.6	8229.6
35°	7079.3	7074.2	7089.9	7069.0	7089.9	7074.2	7079.3	7079.3	7100.4	7121.3	7126.5
37.5°	6017.9	6007.6	6028.5	6007.6	6028.5	6007.6	6017.9	6012.8	6007.6	6017.9	6002.4
40°	5009.0	5019.3	5019.3	5061.3	5019.3	5019.3	5009.0	4998.5	4961.9	4941.0	4920.1
42.5°	4041.6	4073.1	4062.5	4093.9	4062.5	4073.1	4041.6	4020.8	3978.8	3942.2	3911.0
45°	3126.6	3147.7	3147.7	3158.0	3147.7	3147.7	3126.6	3105.7	3069.1	3037.7	3016.8
47.5°	2399.8	2399.8	2399.8	2405.2	2399.8	2399.8	2399.8	2363.2	2352.9	2332.0	2305.8
50°	1824.8	1829.9	1835.3	1840.5	1835.3	1829.9	1824.8	1814.2	1809.1	1798.5	1793.3
52.5°	1401.2	1406.4	1396.1	1406.4	1396.1	1406.4	1401.2	1406.4	1390.7	1390.7	1385.5
55°	1061.4	1056.3	1061.4	1066.6	1061.4	1056.3	1061.4	1061.4	1056.3	1056.3	1056.3
57.5°	779.1	768.5	768.5	768.5	768.5	768.5	779.1	773.9	789.6	779.1	784.2
60°	580.4	585.6	585.6	590.8	585.6	585.6	580.4	590.8	590.8	596.1	596.1
62.5°	428.7	444.4	433.9	444.4	433.9	444.4	428.7	433.9	433.9	439.2	444.4
65°	277.2	277.2	277.2	282.4	277.2	277.2	277.2	282.4	287.5	282.4	298.1
67.5°	188.3	193.5	204.0	198.6	204.0	193.5	188.3	193.5	193.5	209.2	204.0
70°	151.7	136.0	136.0	151.7	136.0	136.0	151.7	141.2	136.0	146.3	141.2
72.5°	88.9	78.3	88.9	88.9	88.9	78.3	88.9	78.3	83.7	83.7	94.0
75°	47.1	41.8	36.6	52.3	36.6	41.8	47.1	47.1	47.1	47.1	52.3
77.5°	31.4	26.0	36.6	36.6	36.6	26.0	31.4	26.0	31.4	26.0	31.4
80°	15.7	20.9	15.7	26.0	15.7	20.9	15.7	26.0	15.7	20.9	20.9
82.5°	5.2	10.5	10.5	10.5	10.5	10.5	5.2	5.2	10.5	10.5	5.2
85°	0.0	10.5	5.2	5.2	5.2	10.5	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	0.0	0.0	5.2	0.0	0.0	5.2	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P249008

CATALOG NUMBER: LD8B175D010 ER8B175840 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0
2.5°	10817.8	10802.0	10807.4	10776.0	10776.0	10765.5	10770.8	10744.6	10734.3	10723.7	10739.4
5°	10974.6	10948.6	10927.5	10880.6	10854.3	10823.1	10807.4	10765.5	10728.9	10697.5	10692.3
7.5°	11100.1	11042.6	11006.1	10943.2	10896.3	10859.7	10807.4	10749.7	10702.8	10660.9	10629.7
10°	11152.4	11094.9	11037.5	10958.9	10906.6	10838.6	10786.3	10713.2	10650.5	10593.1	10556.3
12.5°	11157.6	11084.4	11032.1	10943.2	10875.2	10802.0	10744.6	10660.9	10587.7	10530.2	10472.8
15°	11110.7	11042.6	10979.8	10885.8	10817.8	10749.7	10682.0	10593.1	10525.1	10457.1	10415.3
17.5°	11006.1	10943.2	10870.0	10781.2	10718.5	10655.7	10582.5	10509.4	10430.8	10357.6	10305.3
20°	10870.0	10802.0	10739.4	10650.5	10598.2	10530.2	10462.2	10383.9	10321.0	10247.9	10190.4
22.5°	10666.2	10603.4	10545.9	10493.6	10409.9	10357.6	10310.7	10221.8	10159.0	10091.0	10028.4
25°	10373.3	10310.7	10263.6	10200.7	10164.2	10106.7	10059.6	9981.2	9923.8	9860.9	9808.6
27.5°	9892.3	9855.8	9829.5	9792.9	9761.7	9735.5	9709.4	9646.6	9604.8	9547.4	9495.1
30°	9170.7	9165.6	9149.9	9134.2	9155.0	9155.0	9155.0	9144.7	9108.1	9066.2	9029.6
32.5°	8245.3	8255.9	8276.8	8292.5	8334.2	8381.4	8423.1	8444.0	8444.0	8417.9	8402.2
35°	7142.2	7157.9	7189.3	7231.1	7283.4	7340.8	7434.9	7456.0	7471.5	7471.5	7450.6
37.5°	5997.0	5991.9	6023.3	6059.9	6091.3	6133.1	6201.1	6216.8	6242.8	6232.5	6211.4
40°	4883.3	4857.3	4846.7	4857.3	4893.9	4878.2	4893.9	4883.3	4883.3	4846.7	4846.7
42.5°	3853.3	3822.1	3801.0	3785.5	3785.5	3748.7	3722.7	3696.7	3681.0	3654.7	3649.5
45°	2969.9	2933.1	2907.1	2896.5	2881.0	2833.9	2802.5	2771.0	2734.5	2724.1	2729.3
47.5°	2305.8	2269.2	2258.6	2232.6	2206.3	2180.3	2159.4	2122.8	2117.5	2096.6	2117.5
50°	1777.6	1767.3	1751.6	1741.1	1725.3	1704.5	1683.6	1662.7	1652.2	1652.2	1657.3
52.5°	1380.4	1385.5	1369.8	1354.1	1343.8	1343.8	1317.5	1312.4	1312.4	1291.5	1312.4
55°	1056.3	1050.9	1056.3	1045.7	1045.7	1030.0	1030.0	1014.3	1014.3	998.6	1009.1
57.5°	773.9	784.2	773.9	779.1	789.6	773.9	768.5	752.8	763.4	752.8	758.2
60°	601.3	601.3	601.3	596.1	596.1	590.8	590.8	585.6	585.6	575.0	585.6
62.5°	444.4	449.6	449.6	449.6	455.0	449.6	444.4	449.6	444.4	444.4	449.6
65°	292.9	298.1	298.1	292.9	303.2	292.9	298.1	303.2	308.4	303.2	308.4
67.5°	198.6	198.6	204.0	209.2	204.0	209.2	214.3	209.2	214.3	224.9	214.3
70°	146.3	151.7	151.7	146.3	141.2	146.3	141.2	156.9	156.9	156.9	167.2
72.5°	94.0	94.0	88.9	88.9	88.9	88.9	88.9	104.6	94.0	88.9	99.4
75°	52.3	57.5	57.5	41.8	47.1	57.5	41.8	47.1	62.8	52.3	62.8
77.5°	31.4	31.4	31.4	31.4	31.4	31.4	41.8	36.6	36.6	36.6	41.8
80°	26.0	20.9	20.9	15.7	20.9	20.9	20.9	31.4	26.0	26.0	31.4
82.5°	10.5	10.5	5.2	0.0	10.5	10.5	10.5	10.5	10.5	10.5	20.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	5.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P249008

CATALOG NUMBER: LD8B175D010 ER8B175840 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0
2.5°	10697.5	10697.5	10692.3	10682.0	10660.9	10660.9	10655.7	10640.0	10629.7	10624.3	10624.3
5°	10645.2	10624.3	10603.4	10545.9	10545.9	10535.4	10504.2	10483.1	10472.8	10446.5	10436.2
7.5°	10598.2	10535.4	10498.8	10462.2	10415.3	10394.2	10357.6	10341.9	10305.3	10279.3	10263.6
10°	10483.1	10441.4	10394.2	10336.8	10300.2	10258.4	10216.5	10185.3	10138.1	10111.9	10091.0
12.5°	10404.8	10341.9	10300.2	10237.3	10174.7	10138.1	10080.7	10044.1	9996.9	9944.6	9913.2
15°	10331.6	10263.6	10206.1	10138.1	10070.1	10028.4	9960.4	9918.6	9850.6	9798.3	9761.7
17.5°	10221.8	10164.2	10101.5	10017.8	9955.2	9902.9	9829.5	9777.4	9714.6	9646.6	9610.0
20°	10106.7	10038.7	9976.1	9892.3	9829.5	9766.9	9693.7	9636.2	9562.9	9500.2	9458.5
22.5°	9955.2	9876.6	9824.3	9740.6	9667.5	9599.7	9531.7	9463.7	9395.6	9343.3	9296.2
25°	9735.5	9651.7	9594.3	9526.3	9458.5	9406.2	9322.5	9280.7	9212.7	9165.6	9118.5
27.5°	9421.7	9359.1	9306.8	9238.8	9181.3	9139.5	9076.7	9035.0	8977.3	8935.5	8898.9
30°	8961.8	8909.5	8862.4	8794.3	8752.6	8716.0	8658.3	8621.7	8580.0	8532.9	8522.5
32.5°	8344.8	8302.8	8255.9	8208.8	8177.3	8156.5	8109.3	8088.5	8046.7	8020.5	7994.4
35°	7414.0	7377.4	7351.4	7330.5	7319.9	7325.1	7314.8	7335.7	7346.0	7340.8	7346.0
37.5°	6195.9	6174.8	6185.4	6201.1	6253.4	6321.4	6384.0	6478.0	6540.9	6603.7	6661.2
40°	4836.4	4852.1	4893.9	4987.9	5123.9	5275.7	5416.8	5594.6	5772.4	5897.8	6012.8
42.5°	3649.5	3696.7	3801.0	3937.1	4141.1	4365.8	4585.5	4846.7	5061.3	5270.3	5416.8
45°	2745.0	2807.6	2943.6	3132.0	3356.6	3618.1	3895.3	4188.0	4444.3	4658.7	4820.7
47.5°	2138.5	2196.0	2332.0	2530.7	2807.6	3079.7	3367.2	3670.4	3937.1	4146.2	4287.4
50°	1688.8	1761.9	1882.2	2091.4	2368.6	2656.1	2954.2	3252.0	3503.2	3681.0	3806.4
52.5°	1328.1	1396.1	1511.0	1730.7	2013.1	2300.6	2577.6	2870.5	3090.0	3262.6	3346.3
55°	1030.0	1092.8	1212.9	1396.1	1662.7	1945.1	2222.0	2473.2	2677.0	2802.5	2881.0
57.5°	784.2	831.4	915.1	1098.0	1338.6	1599.9	1835.3	2086.2	2243.1	2332.0	2384.1
60°	596.1	632.7	721.6	862.8	1082.3	1307.2	1505.8	1694.1	1819.6	1892.8	1945.1
62.5°	449.6	491.5	554.2	674.5	841.7	1024.8	1192.0	1333.2	1437.8	1484.9	1521.5
65°	308.4	339.8	386.9	481.0	622.2	752.8	883.7	988.2	1056.3	1108.5	1129.4
67.5°	230.1	250.9	277.2	350.4	449.6	554.2	643.0	716.2	789.6	810.5	847.1
70°	172.6	188.3	214.3	266.6	324.1	397.3	470.7	512.4	564.7	601.3	611.8
72.5°	109.8	114.9	141.2	172.6	219.5	266.6	313.8	350.4	381.8	402.7	413.0
75°	62.8	94.0	94.0	125.5	156.9	177.8	209.2	235.2	250.9	266.6	266.6
77.5°	41.8	57.5	62.8	78.3	94.0	120.3	146.3	162.1	177.8	182.9	182.9
80°	36.6	41.8	41.8	57.5	68.0	88.9	104.6	109.8	120.3	125.5	136.0
82.5°	15.7	20.9	26.0	41.8	47.1	47.1	62.8	68.0	78.3	83.7	83.7
85°	5.2	10.5	10.5	15.7	26.0	31.4	36.6	41.8	47.1	47.1	52.3
87.5°	5.2	5.2	0.0	5.2	10.5	10.5	20.9	20.9	20.9	31.4	31.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P249008

CATALOG NUMBER: LD8B175D010 ER8B175840 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0	10708.0
2.5°	10613.9	10619.1	10598.2	10593.1	10582.5	10587.7	10598.2
5°	10420.5	10425.6	10404.8	10383.9	10383.9	10378.5	10383.9
7.5°	10237.3	10242.7	10211.3	10200.7	10179.9	10185.3	10185.3
10°	10054.4	10054.4	10007.5	10002.1	9986.4	9981.2	9981.2
12.5°	9876.6	9860.9	9824.3	9803.5	9814.0	9782.6	9782.6
15°	9719.8	9693.7	9646.6	9630.9	9604.8	9594.3	9594.3
17.5°	9557.7	9536.8	9495.1	9463.7	9432.2	9427.1	9432.2
20°	9400.8	9379.9	9327.6	9306.8	9280.7	9280.7	9270.2
22.5°	9243.9	9223.0	9176.1	9160.4	9123.8	9123.8	9129.0
25°	9081.9	9066.2	9013.9	9003.5	8998.4	8977.3	8987.8
27.5°	8862.4	8851.8	8810.1	8794.3	8773.5	8768.3	8778.6
30°	8459.7	8444.0	8412.8	8397.1	8360.5	8365.6	8376.0
32.5°	7957.8	7936.9	7895.0	7879.3	7848.1	7837.5	7842.7
35°	7330.5	7314.8	7278.2	7278.2	7246.8	7236.2	7246.8
37.5°	6692.6	6708.1	6692.6	6708.1	6692.6	6687.2	6692.6
40°	6091.3	6148.8	6159.1	6216.8	6195.9	6227.1	6221.9
42.5°	5516.1	5610.1	5646.9	5693.8	5683.5	5704.4	5720.1
45°	4935.6	5014.2	5050.8	5082.2	5087.4	5097.9	5103.1
47.5°	4386.6	4449.5	4454.6	4491.2	4486.1	4486.1	4501.8
50°	3874.4	3916.2	3926.5	3952.8	3931.9	3921.3	3926.5
52.5°	3398.6	3440.3	3429.8	3440.3	3414.3	3403.8	3408.9
55°	2912.2	2933.1	2933.1	2933.1	2901.9	2901.9	2901.9
57.5°	2415.5	2420.9	2410.4	2415.5	2410.4	2378.9	2373.8
60°	1960.8	1960.8	1955.4	1960.8	1945.1	1929.4	1929.4
62.5°	1531.9	1542.4	1563.3	1542.4	1531.9	1542.4	1526.7
65°	1145.1	1166.0	1160.6	1171.2	1166.0	1166.0	1155.5
67.5°	862.8	867.9	873.1	878.5	878.5	878.5	878.5
70°	632.7	648.4	643.0	643.0	643.0	643.0	674.5
72.5°	423.5	444.4	439.2	449.6	449.6	460.1	449.6
75°	287.5	308.4	298.1	313.8	308.4	298.1	324.1
77.5°	193.5	204.0	209.2	214.3	209.2	204.0	209.2
80°	136.0	146.3	141.2	146.3	146.3	146.3	151.7
82.5°	83.7	99.4	94.0	99.4	94.0	99.4	99.4
85°	57.5	62.8	52.3	62.8	57.5	57.5	68.0
87.5°	36.6	31.4	31.4	36.6	31.4	36.6	31.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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